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ENVIRONMENTAL PROTECTION STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

HJ 607-2011

Technical Specifications for Pollution Control of Used Mineral Oil Recovery, Recycle and Reuse

废矿物油回收利用污染控制技术规范

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Foreword

This Standard is established, for the implementation of *Environmental Protection Law of the People's Republic of China* and *Law of the People's Republic of China on the Prevention and Control of Environment Pollution Caused by Solid Wastes*, for the standardization of recovery, recycle and reuse of used mineral oil, for the prevention and control of pollution of used mineral oil to the environment, and for the protection of the environment and human health.

This Standard specifies the pollution control technologies and environmental management requirements for the process of collection, transportation, storage, use and disposal of used mineral oil.

This Standard is issued for the first time.

Annex A to this Standard is informative.

This Standard was drafted under the organization of the Department of Science, Technology and Standards under the Ministry of Environmental Protection.

The main drafting organizations of this Standard: Jinan Environmental Research Institute, Jinan Xinyuan Material Development and Utilization Co., Ltd.

This Standard was approved by the Ministry of Environmental Protection on February 16, 2011.

This Standard is implemented from July 1, 2011.

This Standard shall be interpreted by the Ministry of Environmental Protection.

Technical Specifications for Pollution Control of Used Mineral Oil Recovery, Recycle and Reuse

1 Scope

This Standard specifies the pollution control technologies and environmental management requirements for the process of collection, transportation, storage, use and disposal of used mineral oil.

This Standard applies to the pollution control for the process of collection, storage, transportation, utilization and disposal of used mineral oil. It may be used as the guide for the siting, the engineering construction and the pollution control for the operation after construction, of the operators of used mineral oil.

2 Normative References

This Standard references the articles in the following documents. For undated reference documents, their valid editions apply to this Standard.

GB 8978, *Integrated Wastewater Discharge Standard*

GB 12348, *Emission Standard for Industrial Enterprises Noise at Boundary*

GB 13015, *Control Standard on Poly Chlorinated Biphenyls for Waste Slags*

GB 13271, *Emission Standard of Air Pollutants for Boiler*

GB 16297, *Comprehensive Emission Standard of Air Pollutants*

GB/T 17145, *Technical Guides for Collection and Re-Refining of Used Oil*

GB 18484, *Pollution Control Standard for Hazardous Wastes Incineration*

GB 18597, *Standard for Pollution Control on Hazardous Waste Storage*

GB 18598, *Standard for Pollution Control on the Security Landfill Site for Hazardous Wastes*

HJ/T 55, *Technical Guidelines for Fugitive Emission Monitoring of Air Pollutants*

HJ/T 91, *Technical Specifications Requirements for Monitoring of Surface Water and Waste Water*

HJ/T 166, *Technical Specification for Soil Environmental Monitoring*

HJ/T 176, *Technical Specifications for Centralized Incineration Facility Construction on Hazardous Waste*

HJ/T 373, *Technical Specifications of Quality Assurance and Quality Control for Monitoring of Stationary Pollution Source*

HJ/T 397, *Technical Specifications for Emission Monitoring of Stationary Source*

Provisions on the Administration of Road Transport of Dangerous Goods (Order No. 9 of the Ministry of Transport in 2005)

Rules on Waterway Transport of Dangerous Goods (Order No. 10 of the Ministry of Transport in 1996)

Provisions on the Administration of Railway Transport of Dangerous Goods (Tie Yun [1995] No. 104)

Measures for the Administration of Permit for Operation of Dangerous Wastes (Order No. 408 of the State Council in 2004)

Measures for the Administration of Transfer Documents of Dangerous Wastes (Order No. 5 of State Environmental Protection Administration in 1999)

Policies on Pollution Prevention and Control Technology of Dangerous Wastes (Document No. 199 of State Environmental Protection Administration in 2001)

Guide for Emergency Response Plans Prepared by Operators of Dangerous Wastes (Announcement No. 48 of State Environmental Protection Administration in 2007)

Guide for Recording and Reporting Business Conditions of Operators of Dangerous Wastes (Announcement No. 55 of State Environmental Protection Administration in 2009)

3 Terms and Definitions

For the purposes of this Standard, the following terms and definitions apply.

3.1

used mineral oil

Mineral oil which is extracted and refined from petroleum, coal and oil shale and is unable to be used because the original physical and chemical properties change due to external factors during the process of exploitation, processing and use.

3.2

Ship breaking, repairing and building shall be provided with oil fencing installations and used mineral oil collection installations. The articles containing oil which are generated in operation, shall not be piled up or dumped in water areas randomly.

6.6 Motor vehicle maintenance and mechanical maintenance

6.6.1 The operating sites of motor vehicle maintenance and mechanical maintenance shall be treated for seepage-proofing, and shall be provided with sunscreen and rain-proofing measures.

6.6.2 The operating sites of motor vehicle maintenance and mechanical maintenance shall be provided with special collection containers or installations of used mineral oil, and shall be provided with collection and treatment installations of floor flushing sewage.

7 Technical Requirements for Pollution Control of Storage

7.1 The storage pollution control of used mineral oil shall be as specified in GB 18597.

7.2 The design and construction of storage facilities of used mineral oil shall comply with the design principles for storage of dangerous wastes, in addition to the design specifications for fire protection and dangerous article storage.

7.3 The storage facilities of used mineral oil shall be kept away from fire sources and prevented from high temperature and direct sunlight exposure.

7.4 Used mineral oil shall be stored in special facilities; inspection shall be carried out before storage; it shall not be mixed up with incompatible wastes; and it shall be stored based on category.

7.5 The floor within the storage facilities of used mineral oil shall be treated for seepage-proofing and provided with a collection and diversion system of used mineral oil to collect leaked used mineral oil caused by inadvertent operation.

7.6 When the containers of used mineral oil are used to contain liquid used mineral oil, sufficient expansion space shall be reserved with the reserved capacity not less than 5% of the total capacity.

7.7 The containers which contain used mineral oil shall be closed; oil storage tanks shall be provided with air pores to prevent gas expansion; and protective covers shall be installed to prevent entry of impurities.

9.1.6 The recycled products of used mineral oil shall be tested on major indexes to ensure the quality of the recycled products.

9.1.7 When used mineral oil is treated by inflammation, comprehensive utilization of thermal energy is encouraged.

9.1.8 The used mineral oil and used mineral oil incineration residuals which are unable to be recycled or incinerated, shall be disposed for safety.

9.2 Extraction of crude oil and natural gas

9.2.1 Oil mud and oil sludge whose oil content is greater than 5%, shall be recovered, recycled and reused.

9.2.2 The oil content of oil sludge shall be less than 2% after oil-sand separation.

9.2.3 The oil content of oil-bearing rock debris shall be less than 5% after oil-debris separation. The rock debris is preferably incinerated after the separation.

9.3 Production of refined petroleum products

9.3.1 The oil scum, oil mud, oil residual and other oil sediments which are generated in the production of refined petroleum products, shall be recovered, recycled and reused for resources.

9.3.2 The oil (grease) clay which is generated in the production of refined petroleum products and the recycle of used mineral oil is preferably treated by vapour extraction or calcination-fractionation. After the calcination-fractionation treatment, those which are no longer dangerous after the clay and boiler ash are identified, may be used as construction materials.

9.4 Mechanical processing

The oil metal debris which is generated during the process of mechanical cutting, honing, milling and grinding, is preferably treated by oil-debris separation. The used mineral oil after separation is preferably recycled and reused.

10 Technical Requirements for Pollution Control of Utilization and Disposal

10.1 The operators of used mineral oil shall monitor regularly the site soil and waste gas and waste water discharged in the process of utilization and disposal of used mineral oil; and the monitoring methods and frequencies shall be as specified in HJ/T 55, HJ/T 397, HJ/T 91, HJ/T 373, HJ/T 166 and so on.

10.2 The waste water, waste gas and noise emission in the process of utilization and disposal of used mineral oil shall be as specified in GB 8978, GB 13271, GB 16297,

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